

WHAT IS CLAIMED IS:

A ball bearing fixed assembly, comprising:

5 a fan blade unit, further comprising an integral fan blade, a spindle, a motor casing, and a magnet bar, the spindle being mounted at a lower central position, the motor casing being mounted at a peripheral inner side of said fan blade, and the magnet bar being attached to an inner side of said motor casing;

10 a motor unit, further comprising an insulation frame, a plurality of silicon steel plates, a circuit board, and a plurality of coil, the silicon steel plates horizontally surrounding said insulation frame, the coils being mounted within said insulating frame, and the circuit board being located under a lower side of said insulation frame; and

15 a fan base, being disposed under the circuit board providing a spindle seat at a central position thereof to receive the spindle, a ball bearing fitting with the spindle above the spindle seat, an oil chamber being placed below said ball bearing with a first receiving room and a second receiving room, the second receiving room being disposed above the first receiving room, said spindle having a lower end extending into said first receiving room, the first receiving room having sufficient amount of lubrication oil, a retaining ring being attached to said spindle above said first receiving room, and a spring surrounding said spindle and being located between said retaining ring and said ball bearing;

20 25 30 wherein, the ball bearing is tightly attached within the spindle seat against the spring and the oil chamber.